



# Chain-Scattering Approach to H-infinity-Control (Systems & Control: Foundations & Applications)

*Hidenori Kimura*

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Through its rapid progress in the last decade, H $\infty$  control became an established control technology to achieve desirable performances of control systems. Several highly developed software packages are now available to easily compute an H $\infty$  controller for anybody who wishes to use H $\infty$  control. It is questionable, however, that theoretical implications of H $\infty$  control are well understood by the majority of its users. It is true that H $\infty$  control theory is harder to learn due to its intrinsic mathematical nature, and it may not be necessary for those who simply want to apply it to understand the whole body of the theory. In general, however, the more we understand the theory, the better we can use it. It is at least helpful for selecting the design options in reasonable ways to know the theoretical core of H $\infty$  control. The question arises: What is the theoretical core of H $\infty$  control? I wonder whether the majority of control theorists can answer this question with confidence. Some theorists may say that the interpolation theory is the true essence of H $\infty$  control, whereas others may assert that unitary dilation is the fundamental underlying idea of H $\infty$  control. The J spectral factorization is also well known as a framework of H $\infty$  control. A substantial number of researchers may take differential game as the most salient feature of H $\infty$  control, and others may assert that the Bounded Real Lemma is the most fundamental building block.

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